

## PERMIT TO CONSTRUCT APPLICATION

Revision 3 04/03/07

Please see instructions on page 2 before filling out the form.

C	OMPANY	NAME, FACILITY NAME, AND FACILITY ID NUMBER	
1. Company	Name	Tesoro Refining and Marketing Co.	
2. Facility N	lame	Boise Terminal 3. Facility ID No. 001-00	093
4. Brief Pro	ject Descrip ce or less	rack.	e loading
		PERMIT APPLICATION TYPE	
		New Source at Existing Facility Unpermitted Existing Source: Permit No.: P-050055 Date Issued: May 23, 2006	rce
		orcement Action: Case No.:	
6. Mino		☐ Major PTC	
		FORMS INCLUDED	
included	N/A	Forms	DEQ Verify
		Form GI – Facility Information	
		Form EU0 – Emissions Units General	
	$\boxtimes$	Form EU1 - Industrial Engine Information Please Specify number of forms attached:	
		Form EU2 - Nonmetallic Mineral Processing Plants Please Specify number of forms attached:	
	$\boxtimes$	Form EU3 - Spray Paint Booth Information Please Specify number of forms attached:	
		Form EU4 - Cooling Tower Information Please Specify number of forms attached:	
	$\boxtimes$	Form EU5 – Boiler Information Please Specify number of forms attached:	
	$\boxtimes$	Form HMAP – Hot Mix Asphalt Plant Please Specify number of forms attached:	
	$\boxtimes$	Form CBP - Concrete Batch Plant Please Specify number of forms attached:	
	$\boxtimes$	Form BCE - Baghouses Control Equipment	
		Form SCE - Scrubbers Control Equipment	
$\boxtimes$		Forms El-CP1 - El-CP4 - Emissions Inventory- criteria pollutants (Excel workbook, all 4 worksheets)	
		PP – Plot Plan	
		Forms MI1 – MI4 – Modeling (Excel workbook, all 4 worksheets)	
		Form FRA – Federal Regulation Applicability	

DEQ USE ONLY
Date Received
Project Number
, roject Hamber
Payment / Fees Included?
Yes 🗌 No 🗌
Check Number
CHECK NUMBER

### Instructions for Form CS

This form acts as a cover sheet for the Permit to Construct application, providing DEQ with basic information regarding the company and the proposed permitting action. This form helps DEQ efficiently determine whether the application is administratively complete. This form also provides the applicant with a list of forms available to aid the applicant to successfully submit a complete application.

Company Name, Facility Name, and Facility ID Number

- Provide the name of your company, the name of the facility (if different than company name), and the facility identification (ID) number (Facility ID No.) in the boxes provided. The facility ID number is also known as the AIRS number or AIRS/AFS number (example: 095-00077). If you already have a permit, the facility ID number is located in the upper right hand corner of the cover page. The facility ID number must be provided unless your facility has not received one, in which case you may leave this box empty. Use these same names and ID number on all forms. This is useful in case any pages of the application are separated.
- Provide a brief description of this permitting project in one sentence or less. Examples might be 4. "Install/construct a new boiler" or "Increase the allowable process throughput." This description will be used by DEQ as a unique identifier for this permitting project, in conjunction with the name(s) and ID number referenced in 1-3. You will need to put this description, using the exact same words, on all other forms that are part of this project application. This is useful in case any pages of the application are separated.

**Permit Application Type** 

- Provide the reason you are submitting the permit application by checking the appropriate box 5. (e.g., a new facility being constructed, a new source being constructed at an existing facility, an unpermitted existing source (as-built) applying for a permit for the first time, a permitted source to be modified, or the permit application is the result of an enforcement action, in which case provide the case number). If you are modifying an existing permitted source, provide the number and issue date of the most recent permit.
- Indicate if the application is a minor permit to construct application or a major permit to construct 6. application by checking the appropriate box (e.g., major PTC or minor PTC). If the permit to construct application is for a major new source or major modification, you must ensure that all necessary information required by IDAPA 58.01.01.202, and .204, or .205, as applicable, is provided.

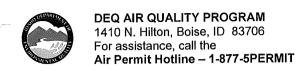
#### Forms Included

Check the "Included" box for each form included in this permit to construct application. If there are multiples of a form for multiple units of that type, check the box and fill in the number of forms in the blank provided.

The "N/A" box should only be checked if the form is absolutely unnecessary to complete the application. Additional information may be requested.

## When complete, submit all application forms and any required fees to:

Air Quality Program Office - Application Processing Department of Environmental Quality 1410 N. Hilton Boise, ID 83706-1255



### **PERMIT TO CONSTRUCT APPLICATION**

Revision 3 03/26/07

Please see instructions on page 2 before filling out the form.

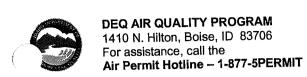
All information is required. If information is missing, the application will not be processed.

	IDENTIFICATION
1. Company Name	Tesoro Refining and Marketing Co.
2. Facility Name (if different than #1)	Boise Terminal
3. Facility I.D. No.	001-00093
4. Brief Project Description:	Modification to load ethanol or ethanol/gasoline blends at the loading rack.
	FACILITY INFORMATION
5. Owned/operated by: {√ if applicable)	Federal government County government  State government City government
6. Primary Facility Permit Contact Person/Title	Jeff Carter/Terminal Manager
7. Telephone Number and Email Address	(208) 375-5558/jcarter@tsocorp.com
8. Alternate Facility Contact Person/Title	Brooks Neighbors/Environmental Compliance Supervisor
9. Telephone Number and Email Address	210-626-6327/bneighbors@tsocorp.com
10. Address to which permit should be sent	321 North Curtis Road
11. City/State/Zip	Boise, Idaho 83706
12. Equipment Location Address (if different than #10)	Same as above.
13. City/State/Zip	Same as above
14. Is the Equipment Portable?	Yes No
15. SIC Code(s) and NAISC Code	Primary SIC: 5171 Secondary SIC (if any): NAICS:
16. Brief Business Description and Principal Product	Petroleum product storage and distribution
17. Identify any adjacent or contiguous facility that this company owns and/or operates	NA
	PERMIT APPLICATION TYPE
18. Specify Reason for Application	<ul> <li>New Facility</li> <li>New Source at Existing Facility</li> <li>Modify Existing Source:</li> <li>Permit No.:P-050055</li> <li>Permit Revision</li> <li>Required by Enforcement Action:</li> </ul>
	CERTIFICATION
IN ACCORDANCE WITH IDAPA 58.01.01.123 ( AFTER REASONABLE INQUIRY	RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.
19. Responsible Official's Name/Title	Jeff Carter/Terminal-Manager
20. RESPONSIBLE OFFICIAL SIGNATI	URE 11-08
21.  Check here to indicate you would	d like to review a drate permit prior to final issuance.

### Instructions for Form GI

This form is used by DEQ to identify a company or facility, equipment locations, and personnel involved with the permit application. Additional information may be requested.

- 1-4. Please fill in the same company name, facility name (if different), facility ID number, and brief project description as on Form CS. This is useful in case any pages of the application are separated.
- Indicate whether the facility is owned by a government entity.
- Name of the primary person who should be contacted regarding this permit.
- 7. Telephone number and e-mail address of person listed in 6.
- 8. Name of the person who should be contacted if the person listed in 6 is not available.
- 9. Telephone number and e-mail address of person listed in 8.
- 10 11. Address to which DEQ should mail the permit.
- 12 13. Physical address at which the equipment is located (if different than 10).
- 14. If the equipment is portable (such as an asphalt plant), identify by marking "yes." If there are other locations where the portable equipment will be used, attach a Portable Equipment Relocation Form (PERF) to list those locations. An electronic copy of the PERF can be obtained from the DEQ website <a href="http://www.deq.idaho.gov/air/permits\_forms/forms/forms/forms/ptc\_relocation.pdf">http://www.deq.idaho.gov/air/permits\_forms/forms/forms/forms/forms/ptc\_relocation.pdf</a> (or <a href="http://www.deq.idaho.gov/air/permits\_forms/forms/forms/ptc\_relocation.doc">http://www.deq.idaho.gov/air/permits\_forms/forms/ptc\_relocation.doc</a> for Word format). Important note: In addition to being submitted with this PTC application, a PERF must also be completed and filed at DEQ at least 10 days in advance of relocating any of the equipment covered in this application.
- 15. Provide the Standard Industrial Classification (SIC) code and the North American Industry Classification System (NAICS) code for your plant. NAICS codes can be found at <a href="http://www.census.gov/epcd/naics02/naicod02.htm">http://www.census.gov/epcd/naics02/naicod02.htm</a>. If a secondary SIC code is applicable, provide it also.
- Briefly describe the primary activity and principal product of your business. If your plant includes more than one major activity, describe the one related with the permit application.
- 17. Please indicate if there are any other branches or divisions of this company located within 5 miles of the address provided in 12 above on this form.
- 18. Check the box which describes the type of permit application.
- 19 20. Fill in the certification section with a signature, name, title and date. The certification must be signed by a responsible official (as defined in IDAPA 58.01.01.006) in accordance with IDAPA 58.01.01.123.
- 21. If you would like to review a draft before the final permit is issued, check this box.



# PERMIT TO CONSTRUCT APPLICATION

Revision 3 03/27/07

Please see instructions on page 2	2 before f	illing out the	form.	_		
		JD.	ENTIFICATION			
Company Name:		Facility Na	ame:		Facility	· •
Tesoro Refining and Marketing C	0.	Boise Ter	minal		001-000	
		Modificati	ions to load ethar	nol or ethanol	/gasoline ble	nds at the loading rack.
Brief Project Description:	SIONS II	NIT /PPOC	ESS) IDENTIFIC	ATION & DE	SCRIPTION	
	LOADIN		200/10/21(1111)			
Emissions Unit (EU) Name:		ON UNIT #1	· · · · · · · · · · · · · · · · · · ·			
2. EU ID Number:			Unpermitted Existing	n Source		
3. EU Type:	☐ New ☑ Modi	fication to a Pe	mitted Source Pre	evious Permit #:F	P-050055 Da	ate Issued: May 23, 2006
4. Manufacturer:	1 d a d a d a	<u> </u>				
5. Model:						
6. Maximum Capacity:	324,000	GALLONS PE	R HOUR			
7. Date of Construction:						
8. Date of Modification (if any)			TIONAL LOADING A			
9. Is this a Controlled Emission Unit?	☐ No		s, complete the follow	ving section. If N	lo, go to line 18.	
			IS CONTROL EC	QUIPMENT		
10. Control Equipment Name and ID:			istion Unit (VCU)	Jan Charles		
1. Date of Installation:		2004	12. Date of Modifica		NA	
13. Manufacturer and Model Number:			del GV-ZTOF-6200-	2	- 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	
14. ID(s) of Emission Unit Controlled:		Emission Uni	t#1			
15. Is operating schedule different than units(s) involved?	emission		☑ No			
16. Does the manufacturer guarantee the efficiency of the control equipment?	e control	☐ Yes □	☐ No (If Yes, attach			tee)
efficiency of the control equipment:			F	Pollutant Control	led	
	РМ	PM10	SO <sub>2</sub>	NOx	VOC	<b>CO</b>
Control Efficiency	NA	NA	NA	NA	90	NA
17. If manufacturer's data is not availab to support the above mentioned control	le, attach a	separate shee	et of paper to provide	the control equi st dated August	pment design sp 31, 2005 is incli	pecifications and performance data uded in Appendix H.
to support the above mentioned control	N HAUT (	DED ATING	SCHEDULE (h	ours/day, he	ours/year, or	other)
	8760 HR		, 00.,		the transfer	
18. Actual Operation	8760 HR					
19. Maximum Operation	8760 HK		REQUESTED LIN	AITS		
				all that apply be	low)	
20. Are you requesting any permit lin	nits?	Yes 🗆	110 (11 165, 61166)	an arac app.y		
☐ Operation Hour Limit(s):			ANOL LIMIT OF 280	000 000 GAL	/R	
☑ Production Limit(s):	G	ASOLINE/ETH	ANOL LIMIT OF 200	0,000,000 0/12		
☐ Material Usage Limit(s):				a cummon rend		
☐ Limits Based on Stack Testin	g P	ease attach all	relevant stack testin	y summary repo	7.03	
☐ Other:		<del></del>		LA OVAITURE!	MINIOR SOLIDA	ne n
21. Rationale for Requesting the Lin	nit(s): T	ESORO WOUL	_D LIKE TO REMAIN	IASYNTHETIC	WINOR SOUR	<b>√L.</b>

### Instructions for Form EU0

This form provides DEQ with information about an emissions unit. An emissions unit is the equipment or process that generates emissions of regulated air pollutant(s). This form is used by the permit writer to become familiar with the emissions unit (EU). This form is also used by DEQ to identify the control equipment and the emission point (stack or vent) used for the emission unit(s) proposed in this permit application. This form also asks for supporting documents to verify stated control efficiencies and details about the emission point. Additional information may be requested.

Please put the same company name, facility name (if different), facility ID number, and brief project description as on Form CS in the boxes provided. This is useful in case any pages of the application get separated.

- Provide the name of the emissions unit (EU), such as "Union boiler," etc. Use the exact same name for this EU throughout all the application forms. A separate EU0 form is required for each 1. emissions unit.
- Provide the identification (ID) number of the EU. It can be any unique identifier you choose; 2. however, this ID number should be unique to this EU and should be used consistently throughout this application and all other air quality permit applications (e.g., operating permit application) to identify this EU.
- Indicate the type of EU by checking the appropriate box (e.g., a new source to be constructed, an unpermitted existing source (as-built) applying for the first time, or an existing permitted source to 3. be modified). If the EU is being modified, indicate on the form the most recent permit issued for the EU.
- Provide the manufacturer's name for the EU. If the EU is custom-designed or homemade, 4. indicate so.
- Provide the model number of the EU. If the EU is custom-designed or homemade, indicate so. 5.
- Provide the maximum capacity of the EU. For example, a boiler's capacity may be in MMBtu/hr in 6. terms of heat input of natural gas; an assembly line capacity may be in parts produced per day. Capacity should be based on a rated nameplate or as stated in the manufacturer's literature.
- The date of construction is the month, day, and year in which construction or modification was 7. commenced.

#### **Definitions:**

Construction fabrication, erection, or installation of an affected facility.

Commenced

an owner or operator has undertaken a continuous program of construction or modification or that an owner or operator has entered into a contractual obligation to undertake and complete, within a reasonable time, a continuous program of construction or modification.

Modification

any physical change in, or change in the method of operation of, an existing facility which increases the amount of any air pollutant (to which a standard applies) emitted to the atmosphere by that facility or which results in the emission of any air pollutant (to which a standard applies) to the atmosphere not previously emitted.

- If the EU has been or will be modified, provide the month, day, and year of the most recent or 8. future modification as defined in IDAPA 58.01.01.006.55.
- Indicate if emissions from the EU are controlled by air pollution control equipment. If the answer is 9. yes, complete the next section. If the answer is no, go to line 18.
- Provide the name of the air pollution control equipment (e.g., wet scrubber) and the control equipment's identification number. This identification number should be unique to this air pollution 10. control equipment and should be used consistently throughout this and all other air quality permit applications (e.g., operating permit application) to identify this air pollution control equipment.

- 11. Provide the date the air pollution control equipment was installed.
- 12. If the air pollution control equipment has been modified, provide the date of the modification.
- 13. Provide the name of the manufacturer and the model number for the air pollution control equipment.
- 14. If this air pollution control equipment controls emissions from more than this EU, provide the identification number(s) of the other EU(s).
- 15. Indicate if this air pollution control equipment operates on a schedule different from the EU(s) it controls.
- 16. Indicate if the air pollution control manufacturer guarantees the control efficiency of the control equipment. If the answer is yes, attach the manufacturer's guarantee and label it with the air pollution control equipment identification number. Indicate the control efficiency for the target pollutant(s).
- 17. If the control efficiency of the air pollution control equipment is not guaranteed, attach the design specifications and any performance data to support the control efficiency stated in part 16. Label the supporting documentation with the air pollution control equipment identification number.
- 18. Provide the projected actual operating schedule for the emission unit in hours/day, hours/year, or other.
- 19. Provide the maximum operating schedule for the emission unit in hours/day, hours/year, or other.
- 20. If you are requesting to have limits placed on this EU, mark "Yes." Then, check the applicable requested limit(s) and provide the limit(s). For example, production limits may be in terms of parts produced per year, material usage limits may be in gallons per day.
- 21. Please provide the reason you are requesting limits, if any. This helps DEQ and the applicant determine whether the limits are necessary, and if they will accomplish the desired purpose. Provide supporting documentation (calculations, modeling assessment, regulatory review, etc.) for each limit requested.



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706 For assistance, call the

PERMIT TO CONSTRUCT APPLICATION Revision 3 4/5/2007

Air Permit Hotline - 1-877-5PERMIT Please see instructions on page 2 before filling out the form.

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Company Name:	resoro reminis		e an independent		<u> </u>		001-00093						
Facility Name:					<u> </u>			<u> </u>	<u> </u>	romani wida	er general en en en en en en en en	garage and a second control of	
Facility ID No.: Brief Project Description:	Modifications to	load ethanol or e	ethanol/gasolir	ne blends at th	e loading rack.	op optiti		ANTS - POI	NT SOURC	i e			
Brief Project Description.	SUM	load ethanol or e	CILITY WIL	DE EMISSIC	ON RATES I	OR CRITE	RIA POLLOT	AITIO					
	2.							CO		VOC	;	Lea	
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	Stack ID	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	10/111	17	,2,,,,			
Emissions units	Otabit ID	JD/111			Point Sou				4.70	14.22	62.30	NA	N/
		NA	NA	NA	NA	0.21	0.90	1.07	4.70	14.22			
ading Rack	EU #1												
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	1410 N. Hilton, For assistance,	ITY PROGRAM Boise, ID 83706 call the			Р	ERMIT TO CONSTR	UCT APPLICATION Revision 3 4/5/2007
	Air Permit Hot	line - 1-877-5PERMIT	lease see instructions on had	ge 2 before filling out the form.			
Company Name:				<u>and the state of </u>			
Facility Name:		<u> </u>	The second of th	Boise Termina			
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Facility ID No.:			line blands at the leading ra	ak .			والمراب والمراب والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع والمرابع
Facility ID No.: Brief Project Description:	Modifications to	load ethanol or ethanol/gasc	office dierios at the loading ra	S EOD ODITEDIA DOLL	LITANTS POINT SOLI	201	201
	SUM	MARY OF FACILITY W	IDE EMISSION RATE	S FOR CRITERIA POLL	UTANTS - POINT SOUR	(01	
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Emissions units	Stack ID	ib/hr T/yr	lb/hr T/yr	1 10111	IDMIT 1741	12/111 ( 17/1	(serial
			Point S	ource(s)			

Instructions for Form EI-CP1

This form is designed to provide the permit writer and air quality modeler with a summary of the criteria pollutant emissions of each emission unit/point located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

- 1. Provide the name of all emission units at the facility. This name must match names on other submittals to IDEQ and within this application.
- Provide the identification number for the stack which the emission unit exits.
- 3. Provide the emission rate in pounds per hour and tons per year for all criteria pollutants emitted by this point source. In this form, emission rates for a point source are the maximum allowable emissions for both short term (pounds per hour) and long term (tons per year). These emission rates are its permitted limits (if any). Otherwise, potential to emit should be shown. Potential to emit is defined as uncontrolled emissions at maximum design or achievable capacity (whichever is higher) and year-round continuous operation (8760 hours per year) if there are no federally enforceable permit limits on the emission point. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, the control efficiency or proposed permit limit(s) may be used in calculating potential to emit.

**NOTE:** Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



DEQ AIR QUALITY PROGRAM

PERMIT TO CONSTRUCT APPLICATION Revision 2

	DEQ AIR QUALITY 1410 N. Hilton, Boi For assistance, cal Air Permit Hotline	se, ID 83706 I the	omit .										4/5/200
	Air Permit Hotilie	- 1-0//-SFE	PI	ease see instr	uctions on page	2 before filling	g out the form.						
Company Name:	Tesoro Refining a	and Marketing		January Bridge						<u> </u>	<u></u>		
Facility Name:			eta		<u> </u>		oise Terminal 001-00093	<del>-11</del>					
					<del> </del>	<u> </u>	001-00093	<u> </u>					
Facility ID No.:  Brief Project Description:	Modifications to loa	ad ethanol or e	ethanol/gasoline	e blends at the	loading rack.	OR CRITE	SIA BOLLILI	TANTS - EL	IGITIVE SOL	IRCE	an an and a street	Adjust to proving see	
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			VI <sub>10</sub>		T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
Fugitive Source Nam∈	Fugitive ID	lb/hr	T/yr	lb/hr	Fugitive S	ource(s)	1777	110/111					
	ELL WA	NA	NA	NA		NA	NA	NA	NA	5.43E-03	0.02	NA	NA
Loading Rack	EU #1	INA	IVA		177 124 11 11	<u> </u>							
Note: Fugitive emissions are from		e considerate	d with the m	odifications	to the loadin	g rack.							
Note: Fugitive emissions are from	equipment leak	s assultate	d with the in	Cameatione	1	i						1 .	Į
	Company of the second second	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>. 4 44</u>							
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	DEQ AIR QUALITY	PROGRAM			P	ERMIT TO CONSTRI	JCT APPLICATION Revision 2 4/5/2007
	1410 N. Hilton, Boi	se, ID 83706					4/5/2007
	For assistance, cal	- 1-877-5PERMIT					
N. M. S. C.	All Felline Floring		Please see instructions on page	e 2 before filling out the form.			
Company Name:	Tesoro Refining	and Marketing Compan	у.	Boise Terminal	<u>and the state of </u>		
Facility Name:		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	to go the state of the second control of the second	001-00093		<u> </u>	
Facility ID No.:			II II - I - At the leading rack			وقدور والمعالم والمراجع والمعارض والمراجع والمراجع	and januaga ayaka garang kalawa kayara ay raba
Brief Project Description:	Modifications to loa	ad ethanol or ethanol/gas	soline blends at the loading rack. WIDE EMISSION RATES F	OR CRITERIA POLLUI	TANTS - FUGITIVE SOL	JRCE	
	SUMM	ARY OF FACILITY	WIDE ENISSION RATES I		3.		
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Fugitive Source Name	Fugitive ID	lb/hr T/yı	Fugitive S				

Instructions for Form EI-CP2

This form is designed to provide the permit writer and air quality modeler with a summary of the criteria pollutant emissions of each emission unit/point located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

Fugitive emissions are those emissions that cannot reasonably be made to pass through a stack or vent or equivalent opening. Examples include coal piles, unpaved roads, etc. Fugitive emission sources at your plant must be included in this form.

- 1. Provide the name of all fugitive sources at the facility. This name must match names on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the fugitive source. This ID number should match ID numbers on other submittals to IDEQ and within this application.
- 3. Provide the emission rate in pounds per hour and tons per year for all criteria pollutants emitted by this fugitive source. In this form, emission rates for a fugitive source are the maximum allowable emissions for both short term (pounds per hour) and long term (tons per year). These emission rates are its permitted limits (if any). Otherwise, potential to emit should be shown. Potential to emit is defined as uncontrolled emissions at maximum design or achievable capacity (whichever is higher) and year-round continuous operation (8760 hours per year) if there are no federally enforceable permit limits on the emission point. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, then, the control efficiency or proposed permit limit(s) may be used in calculating potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



PERMIT TO CONSTRUCT APPLICATION Revision 3 4/5/2007

-0300-	Please see instructions on page 2 before filling out the form.	
Company Name:	Tesoro Refining and Marketing Company Boise Terminal	
Facility Name:	001-00093	
Facility ID No.		ndagada Japan (1944-1926)

	Facility Name:	<u> </u>	<u> </u>	<u>intra a l'Espandir</u>	5,656.5 1 <u>25,43,650</u>			001-00093	4. 5. 6. 1. 4. V. <u>1</u>		<u> </u>			·
	Facility ID No.:	Modifications to lo	ad athenel or s	thanol/gasoline	e blends at the	loading rack.	- <u>des Material de la Material de</u> La material de la compansión de la material de	in distance and these con-	a garata ka egaratan	, g., g., p. 65555, p. 6555, p. 6556, p. 65		postoji svigovi staviviti	หลอง <u>โดยตามีนักส่งที่เสรียชต์</u>	د ده کارور ده هموم میآیی و د
	Brief Project Description:	Modifications to lo		ethanol/gasoline SIONS INC	REASE (PR	OPOSED P	TE - PREVI	OUSLY MO	DELED PT	E) - POINT S	SOURCE			
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	DEQ AIR QUALITY 1410 N. Hilton, Boi For assistance, cal Air Permit Hotline	se, ID 83706 I the	IT	ease see instructions on pag	e 2 hefore filling	out the form.		P	ERMIT TO	CONSTRU	JCT APPLIC	Revision 3 4/5/2007
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Company Name:	Tesoro Refining a	nd Marketing C	ompany	taring the second secon	<u> </u>		<u> </u>				<u> </u>	
Facility Name:			1.12 100 0	The second secon	Bol	se Terminal	<u> </u>		<del> </del>			
					0	01-00093		. <u> </u>		<u> </u>		
Facility ID No.:				bloods of the loading rack					or and observed the second		<u> </u>	a de la companya de
Brief Project Description:	Modifications to loa	ad ethanol or eth	anol/gasoline	Dierius at the loading racit.	TE DDEVIO	Hel V MOI	SELED DIE	A POINTS	OURCE			
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Emissions units	Stack ID	lb/hr	T/yr_	lb/hr T/yr	lb/hr	T/yr	10/111	1771	10/111			
m				Point So	ource(s)							

Instructions for Form EI-CP3

This form is designed to provide the permit writer and air quality modeler with a summary of the change in criteria pollutant emissions of each emission unit/point associated with the permit application or requested by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID number, and brief project description as on form CS in the boxes provided. This is useful in case any pages of the application get separated.

- 1. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the stack which the emission unit exits.
- 3. Provide the increase in emissions in pounds per hour and tons per year for all criteria pollutants emitted by this emission unit. In this form, increase in emissions for an emission unit are the proposed PTE Previously modeled PTE. If the emission point has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, then, the control efficiency or proposed permit limit(s) may be used in calculating proposed potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



### PERMIT TO CONSTRUCT APPLICATION

Revision 3 4/5/2007

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Facility Name:	1,54, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	<u> </u>	<u> </u>	<u> </u>	<u> </u>		001-00093	W					
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Facility ID No.: Brief Project Description:	Modifications to lo SUMMARY	ad ethanol of e	Inanol/gasoline	ASE (RRO	POSED PTE	- PREVIO	JSLY MODE	ELED PTE)	- FUGITIVE	SOURCE			
	SUMMARY	OF EMISS	IONS INCR	-ASE (PRO									
_	2.	1			Air Pollu	tant Maxim	um Change	in Emissio	ns Rate (Ib	s/hr or t/yr)			
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PERMIT TO CONSTRUCT APPLICATION

Revision 3 4/5/2007

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			P	lease see instru	uctions on page	e 2 before filling	out the form.						
Company Name:	Tesoro Refining a	nd Marketing	g Company			Bo	ise Terminal						
Facility Name:		<u>. 12 </u>	adding the second	<u> An an ar ar air nach</u>	<u></u>		001-00093				,		
Facility ID No.:		1.0		- 1-1 1 1 1 1	leading rack					and a series of the series of the series of	All green balls & All		فيريده ويدا
Brief Project Description:	Modifications to loa SUMMARY	ad ethanol or	ethanol/gasolin	e biends at the	DOCED DIE	PREVIOL	SLY MODE	I ED PTE) -	<b>FUGITIVE</b>	SOURCE			
	SUMMARY	OF EMISS	SIONS INCR	EASE (PRU	PUSED FIL	PICLVICE	OLI MODE						
4	2.	Air Pollutant Maximum Change in Emissions Rate (lbs/hr or t/yr)											
1.								С		VC		Lea	ad
		P	M <sub>10</sub>	) s	O <sub>2</sub>	N'	o <sub>x</sub>	٠	·				
			T	<del> </del>	Th	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr	lb/hr	T/yr
ugitive Source Name	Fugitive ID	lb/hr	T/yr	lb/hr	T/yr	15/111	1791	13/111	,				
ug					Fugitive S	Source(s)							

Instructions for Form El-CP4

This form is designed to provide the permit writer and air quality modeler with a summary of the change in criteria pollutant emissions of each emission unit/point associated with the permit application. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID Number, and brief project description as on Form CS in the boxes provided. This is useful in case any pages of the application get separated.

- 1. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the fugitive source. This ID should match IDs on other submittals to IDEQ and within this application.
- 3. Provide the increase in emissions in pounds per hour and tons per year for all criteria pollutants emitted by this fugitive source. In this form, increase in emissions for an emission unit are the proposed PTE Previously modeled PTE. If the fugitive source has or will have control equipment or some other proposed permit limitation such as hours of operation or material usage, the control efficiency or proposed permit limit(s) may be used in calculating proposed potential to emit.

NOTE: Attach a separate sheet of paper, or electronic file, to provide additional documentation on the development of the emission rates. Documentation can include emissions factors, throughput, and example calculations.



## PERMIT TO CONSTRUCT APPLICATION

4/5/2007

Please see instructions on page 2 before filling out the form.	
Tesoro Refining and Marketing Co.	4

Company Name: Facility Name: Facility ID No.:

**Boise Terminal** 001-00093

Modifications to load ethanol or ethanol/gasoline blends at the loading rack. **Brief Project Description:** 

Brief Project Description:	SUMMARY OF AIR IMPACT ANALYSIS RESULTS - CRITERIA POLLUTANTS										
	SUIVI	1.	IIVII AOT ATA	2.	3.	4.		5.			
Criteria Pollutants	Averaging Period	Significant Impact Analysis Results	Significant Contribution Level (µg/m3)	Full Impact Analysis Results (µg/m3)	Background Concentration (µg/m3)	Total Ambient Impact (μg/m3)	NAAQS (μg/m3)	Percent of NAAQS			
		(µa/m3)		NA	NA	NA	150	NA .			
	24-hour	NA NA	5		NA NA	NA	50	NA NA			
PM <sub>10</sub>	Annual	NA	11	NA NA	NA NA	NA	1300	NA			
	3-hr	NA	25	NA		NA NA	365	NA NA			
SO <sub>2</sub>	24-hr	NA NA	5	NA .	NA NA	NA NA	80	NA			
<b>50</b> 2	Annual	NA NA	11	NA NA	NA NA	<del></del>	100	NA			
NO	Annual	NA	1.	NA NA	NA	NA NA		NA			
NO <sub>2</sub>	1-hr	NA	2000	NA	NA NA	NA NA	10000	NA NA			
со	8-hr	NA NA	500	NA	NA	NA NA	40000	I. IVA			

<sup>\*</sup> As criteria pollutants are not expected to increase from the proposed project, a modeling analysis was only done for TAP emissions.

#### Instructions for Form MI1

This form is designed to provide the air quality modeler with a summary of the air impact analysis results for the criteria pollutants. This information will be used by IDEQ to determine compliance demonstration with the national ambient air quality standards (NAAQS).

Please fill in the same company name, facility name, facility ID number, and brief project description as on Form CS in the boxes provided. This is useful in case any pages of the application get separated.

**Significant Impact Analysis** -Evaluates the emissions increase from the proposed project only. This analysis determines whether or not a proposed project has a significant impact on ambient air, and therefore, requires a full impact analysis.

**Full Impact Analysis** - Only required if the significant impact analysis exceeds the significant contribution level - evaluates the emissions from the facility, including the emissions increase from the proposed project. This analysis determines whether the facility, with the emissions increase, complies with the NAAQS.

- 1. Provide the results of the significant impact analysis inμg/m³.
- 2. Provide the results of the full impact analysis inµg/m³ (if required).
- 3. List the background concentration in mg/m3. Contact the Stationary Source Modeling Coordinator at (208) 373-0502 for the current background concentrations for the area of interest. (Not needed if full impact analysis is not required.)
- 4. Provide the total ambient impact in mg/m3. The total ambient impact is the sum of the background concentration and the full impact analysis result.
- 5. Calculate the percent of the NAAQS that the total ambient impact analysis represents.



DEQ AIR QUALITY PROGRAM 1410 N. Hilton, Boise, ID 83706

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	1410 N. Hilton, For assistance, Air Permit Hot	call the line - 1-877-5P	ERMIT	3/27/200 ons on page 2 before filling out the form								
	<u> </u>	Please s	ee instructio	ns on page :	2 before fill	ing out the fo	orm					
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Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Stack Height (m)	Modeled Diameter (m)	Stack Exit Temperature (K)	Stack Exit Flowrate (acfm)	Stack Exit Velocity (m/s)	Stack orientation (e.g., horizontal, rain cap)		
Point Source(s)					13.72	2.32	588.71	5,884.00	0.66	Vertical		
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#### Instructions for Form MI2

This form is designed to provide the air quality modeler with information on the stack characteristics of each point source located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requesty the IDEQ.

Please fill in the same company name, facility name, facility ID number, and brief project description as on Form CS in the boxes provided. This is useful in case any pages of the application get separated.

- 1. Provide the name of the emission unit. This name should match names on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the stack which the emission unit exits.
- 3. Provide the UTM locations for each point source. The UTM Easting and UTM Northing are the coordinates for the center of the point source.
- 4. Provide the elevation of the base of the stack. This elevation must be calculated by the same method as the buildings and receptor elevation.
- 5. Provide the height of the stack, from the ground.
- 6. Provide the stack diameter that is included in the modeling analysis. Refer to the State of Idaho Modeling Guideline for guidance on developing the appropriate diameter.
- 7. Provide the stack exit temperature. Include documentation and justification for the exit temperature used.
- 8. Provide the stack exit flowrate. Include documentation and justification for the exit flowrate used.
- 9. Provide the stack exit velocity. Include documentation and justification for the exit velocity used.
- 10. Provide the orientation of the stack (horizontal or vertical). Indicate whether there is an obstruction on the stack, such as a raincap.



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Company Name: Facility Name:	Date Townson												
Facility ID No.:	<u> </u>			and the same of the same		-00093		in ye esset e	g kan gari aya isa sa				
Brief Project Description:	Modifications to load ethanol or ethanol/gasoline blends at the loading rack.												
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1.	2.	3a.	3b.	4.	5.	6.	7.	8.	9.	10.			
Emissions units	Stack ID	UTM Easting (m)	UTM Northing (m)	Base Elevation (m)	Release Height (m)	Easterly Length (m)	Northerly Length (m)	Angle from North (°)	Initial Vertical Dimension (m)	Initial Horizoni Dimensi (m)			
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#### Instructions for Form MI3

This form is designed to provide the air quality modeler with information on the characteristics of each fugitive source located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID number, and brief project description as on Form CS in the boxes provided. This is useful in case any pages of the application get separated.

Fugitive sources are typically modeled as either area or volume sources. Area sources are used to model fugitives from sources such as roads or parking lots, while volume sources are typically used to model fugitives from piles. Refer to the State of Idaho Air Quality Modeling Guideline for additional guidance on modeling fugitive sources.

- 1. Provide the name of the fugitive source. This name should match names used on other submittals to IDEQ and within this application.
- 2. Provide the identification number for the fugitive source.
- 3. Provide the UTM locations of the fugitive source. The UTM Easting and UTM Northing are the coordinates for the center of the fugitive source.
- 4. Provide the elevation of the base of the fugitive source. This elevation must be calculated by the same method as the buildings and receptor elevation.
- 5. Provide the height of the fugitive source, from the ground. This is used for an elevated release. If the fugitive source is at ground level enter zero.
- Provide the easterly length of the fugitive source.
- Provide the northly length of the fugitive source.
- 8. Provide the angle from north, in degrees. This allows for accurate evaluation of the alignment of the fugitive source.
- 9. Provide the initial vertical dimension of the fugitive source. Refer to the State of Idaho Modeling Guideline for guidance on estimating this value.
- 10. Provide the initial horizontal dimension of the fugitive source. This parameter is only used for volume sources. Refer to the State of Idaho Modeling Guideline for guidance on estimating this value.



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Brief Project Description		ВІ	JILDING AND	STRUCTUR	REINFORMATION	7.
1.	2.	3.	4.	5.	6.	
Building ID Number	Length (ft)	Width (ft)	Base Elevation (m)	Building Height (m)	Number of Tiers	Description/Comments
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#### Instructions for Form MI4

This form is designed to provide the air quality modeler with information on the buildings and structures located at the facility. This information may be used by the IDEQ to perform an air quality analysis or to review an air quality analysis submitted with the permit application or requested by the IDEQ.

Please fill in the same company name, facility name, facility ID number, and brief project description in the boxes provided. This is useful in case any pages of the application get separated.

- 1. Provide the building ID number.
- 2. Provide the length of the building.
- 3. Provide the width of the building.
- 4. Provide the base elevation of the building. This elevation must be calculated by the same method as the sources and receptor elevation.
- 5. Provide the height of the building, from the ground.
- 6. Provide the number of tiers on the building. Refer to the State of Idaho Modeling Guideline for guidance on this topic.
- 7. Provide a description of the building.